

July 27, 2015

North Dakota Department of Transportation

Bridge Inventory - Structure Inventory And Appraisal Sheet

SEC 409

Structure Number: 0073-008.717

| | | | |
|--|---------------------------|--|-------------------------------|
| 200 System Designation | 1 - State | Classification | |
| 201 Status | Not Deficient | 12 Base Highway Network | Not on Base Network |
| 202 Sufficiency Rating | 99.40 | 20 Toll | 3 On free road |
| Identification | | 21 Maint Responsibility | 01 State Highway Agency |
| 02 Highway District | Williston District | 22 Owner | 01 State Highway Agency |
| 03 County | McKenzie | 26 Functional | Rural, Major Collector |
| 04 City | Unknown | 37 Historical Significance | 5 Not eligible for NRHP |
| 05 Inventory Route | Route On Structure | 100 Defense Highway Designation | 0 Not a STRAHNET hwy |
| 3 State Hwy 1 Mainline | 00073 0 N/A (NBI) | 101 Parallel Structure Designation | No bridge exists |
| 06 Feats Intersect | COULEE | 102 Direction of Traffic | 2 2-way traffic |
| 09 Location | 3 WEST ND 22 | 103 Temporary Structure Designation | Not Applicable (P) |
| 11 Milepoint | 8.715 | 104 Highway System of Inventory Rte | 0 Not on NHS |
| 13 LRS Inv Route. Subroute | -1 -1 | 105 Federal Lands Highways | Indian Reservation Road (IRR) |
| 16 Latitude | 47d 47' 24.00" | 110 Designated National Network | 0 Not part of natl netwo |
| 17 Longitude | 102d 45' 42.00" | 112 NBIS Bridge Length | |
| GPS Coordinates XY | 218237.8 5300335.7 | 226 Functional Under | |
| 98 Border Bridge | Unknown (P) 0.00 % | Condition | |
| 99 Border Bridge Struct No. | -2 | 58 Deck | N N/A (NBI) |
| Structure Type and Material | | 59 Superstructure | N N/A (NBI) |
| 43 Main Struct Type | Steel | 60 Substructure | N N/A (NBI) |
| Culvert | | 61 Chan. & Chan. Protection | 6 Bank Slumping |
| 44 Approach Struct Type | 0 Other | 62 Culvert and Retaining Walls | 6 Deterioration |
| | 00 Other (NBI) | Load Rating and Posting | |
| 45 No. Spans in Main Unit | 1 | 31 Design Load | |
| 46 No. Approach Spans | 0 | MS 18 (HS 20) (live load for which structure was designated) | |
| 107 Deck Struct Type | N N/A (NBI) | 41 Structure Open, Closed or Posted | A Open, no restriction |
| 108 Wearing Surface | N N/A (no deck (NBI)) | 63 Operating Rating Method | 1 LF Load Factor |
| Membrane | N N/A (no deck (NBI)) | 64 Oper. Rating | HS 33 59 Tons |
| Dk Protect | N N/A (no deck (NBI)) | 65 Inventory Rating Method | 1 LF Load Factor |
| 208 Dk Overburden | N Not Applicable | 66 Inv. Rating | HS 19 36 Tons |
| Age and Service | | 70 Bridge Posting | 5 At/Above Legal Loads |
| 27 Yr Built | 1960 106 Yr Reconstructed | 209 Posted in "Tons" | 00 Tons |
| 42 Type of Service | 1 Highway - On | Appraisal | |
| | 5 Waterway - Under | 67 Structural Condition | 6 Equal Min Criteria |
| 28 Lanes on Structure | 2 | 68 Deck Geometry | N Not applicable (NBI) |
| 29 ADT | 190 30 Year of ADT | 69 Underclear. Vert & Horiz | N Not applicable (NBI) |
| 109 Average Daily Truck Traffic | 11.00 | 71 Waterway Adequacy | 9 Above Desirable |
| 19 Bypass, Detour Length | 36 Miles | 72 App. Rdwy. Alignment | 7 Above Min Criteria |
| Geometric Data | | 36 Traffic Safety Features | N N 0 1 |
| 10 Min Vert Clearance | 328 Ft. 1 In. | 113 Scour Critical | 8 Stable Above Footing |
| 32 Approach Roadway Width | 37 Feet | Inspections | |
| 33 Bridge Median | 0 No median | 90 Date of Last Inspection | November 07, 2013 |
| 34 Skew | 0.00 | 91 Designated Inspection Frequency | 24 Months |
| 35 Structure Flared | 0 No flare | 92 Critical Feature Inspected / 93 Critical Feature Last Inpsection Dt | |
| 47 Total Horizontal Clearance | 36.7 Feet | Fracture Critical | N |
| 48 Length of Max Span | 12 Feet | Underwater | N |
| 49 Structure Length | 12.14 Feet | Other Special | N |
| 50 Curb/Sidewalk Widths | 0.0 Ft Rt-Side | 218 Channel Profile | N |
| | 0.0 Ft Lt-Side | 207 Transporter Erector Routes and Sites | |
| 51 Bridge Rdwy Width - Curb to Curb | 0.0 Feet | 212 Structure Load Rated | 01/06/2234 |
| 52 Deck Width | 0.0 Feet | 213 Federal Aid Project Number | RS-7-073(01)000 |
| 53 Min Vert Clear. Over Bridge | 328 Ft. 1 In. | 214 Delayed Inspection | Not Applicable |
| 54 Min Vert Underclearance | 0 Ft. 0 In. | 216 Inspector | Horn, Solwey |
| | N Feature not hwy or RR | Navigation Data | |
| 55 Min Lateral UnderClear. - Rt | 327.8 Feet | 38 Navigation Control | Permit Not Required |
| | N Feature not hwy or RR | 39 Navigation Vertical Clearance | 0 Feet |
| 56 Min Lateral UnderClear. - Lt | 0.0 Feet | 40 Navigation Horizontal Clearance | 0 Feet |
| 210 Culvert / 211 Description | | 111 Pier or Abutment Protection | Unknown (NBI) |
| INGLE, 12X13X175' SPP ELLIPSE WITH HEADWALLS | | 116 Minimum Navigation Vertical Clearance | -1 Feet |

July 27, 2015

North Dakota Department of Transportation
Bridge Inventory - Structure Inventory And Appraisal Sheet

SEC 409

Structure Number: 0073-008.717

| Element / Env. / Description | Units | Total Qty | 1 % | 1-Qty St | 2 % | 2-Qty St | 3 % | 3-Qty St | 4 % | 4-Qty St |
|--------------------------------|-------|-----------|-----|----------|-----|----------|-----|----------|-----|----------|
| 240/3:Steel Culvert | ft | 174 | 0 | 0 | 100 | 174 | 0 | 0 | 0 | 0 |
| 515/3:Steel Protective Coating | sq.ft | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8402/3:Headwalls | each | 2 | 100 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |

Remarks:

NBI Remarks: Concrete liner at outlet end 9.3x10x40. The liner has minor to moderate bulges on upper walls at outlet end. The inslope above the south end of pipe shows moderate sloughing. Minor diagonal cracks in concrete spillway. Concrete baffles in spillway have moderate collision damage with exposed rebar. Minor random cracks in concrete headwalls at inlet end. Beaver dam across inlet end partially obstructing flow. Minor corrosion on floor for entire length an at random bolt connections.